

ESCALANTE RIVER BASIN

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¹/₄NW¹/₄SE¹/₄ sec. 9, T. 35 S., R. 3 E., Garfield County, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WDR UT-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above sea level, from topographic map. Prior to April 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records fair except for discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Considerable regulation of low flows by diversion into Wide Hollow Reservoir (an off-stream storage site about 4 mi upstream; capacity 2,320 acre-feet) and by diversion on Pine Creek for irrigation of about 2,300 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,550 ft³/s, Aug 24, 1998, gage height, 11.05 ft, from rating curve extended above 150 ft³/s on basis of slope-area measurements at gage heights, 5.31 ft, 6.25 ft, 7.59 ft, and 11.05 ft; minimum daily, 0.07 ft³/s, Jul 11, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 926 ft³/s, Aug 29, gage height, 5.25 ft; minimum daily discharge, 0.31 ft³/s, Oct 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	5.1	3.9	e3.0	e5.0	14	12	15	56	2.4	2.9	1.5
2	.39	3.8	4.1	e3.0	e5.0	15	11	23	49	2.4	19	1.4
3	.31	3.8	4.0	e3.0	e5.5	15	11	18	44	2.2	36	1.4
4	.35	4.6	3.9	e3.0	e7.0	14	11	16	37	2.2	12	1.4
5	.38	4.0	4.5	e3.5	e10	14	12	16	33	2.1	1.6	1.4
6	.41	3.0	4.5	e3.5	e12	16	11	14	28	2.0	1.3	1.3
7	.41	3.6	4.3	e3.5	e14	28	11	13	24	2.0	13	1.3
8	6.7	3.1	4.1	e3.0	e12	24	11	12	21	2.4	2.7	1.3
9	3.0	3.3	4.0	3.7	e8.0	26	11	19	19	3.1	3.6	1.3
10	13	3.6	4.0	4.4	e4.0	28	9.9	37	17	3.5	5.4	1.4
11	5.8	2.9	3.9	4.2	e2.5	24	9.9	49	19	6.2	4.5	1.3
12	1.6	2.5	3.7	4.3	e3.5	18	9.2	66	14	4.9	4.8	1.3
13	1.5	e2.5	4.6	4.8	e3.5	18	9.2	84	14	17	23	6.1
14	1.6	e2.0	4.8	e4.0	e4.0	22	8.9	88	14	8.9	5.7	3.0
15	1.5	e1.8	5.0	e3.0	e4.5	17	9.0	91	13	29	4.6	1.5
16	1.5	e1.5	3.9	e1.8	5.2	17	8.4	89	11	8.5	47	3.0
17	1.5	e1.5	4.0	e1.3	6.4	15	8.5	100	10	4.0	17	2.9
18	1.5	e2.0	e3.0	e1.3	8.0	18	8.9	104	8.4	3.8	3.4	1.8
19	1.7	e2.0	e2.5	e1.2	17	25	9.6	117	4.9	3.7	3.1	1.8
20	1.5	e2.0	e2.0	e1.2	18	29	10	105	4.3	3.6	2.3	1.8
21	3.1	e3.0	e2.0	e1.3	17	34	9.9	107	3.9	3.6	1.9	1.6
22	16	3.6	e2.5	e1.4	17	34	9.6	101	3.8	3.4	6.2	1.4
23	68	3.7	e3.0	e1.6	14	37	9.2	98	3.8	3.4	1.9	1.3
24	20	3.9	e3.0	e1.8	14	29	8.8	97	3.8	3.1	1.7	1.2
25	10	3.9	e3.5	e1.9	15	24	8.8	97	3.4	2.9	1.6	1.5
26	5.2	4.5	e3.5	e2.0	15	23	11	93	27	3.0	1.7	1.4
27	80	3.9	e3.5	2.2	14	22	12	89	12	3.8	1.7	1.3
28	33	3.9	e3.0	3.2	17	20	12	82	3.9	4.4	1.6	1.2
29	12	3.8	e3.0	4.9	---	19	12	76	2.8	4.4	37	1.1
30	7.6	3.7	e2.5	e4.5	---	15	12	69	2.4	4.5	4.2	1.1
31	6.0	---	e2.5	e5.5	---	14	---	62	---	3.6	1.7	---
TOTAL	306.02	96.5	110.7	91.0	278.1	668	307.8	2047	507.4	154.0	274.1	51.3
MEAN	9.87	3.22	3.57	2.94	9.93	21.5	10.3	66.0	16.9	4.97	8.84	1.71
MAX	80	5.1	5.0	5.5	18	37	12	117	56	29	47	6.1
MIN	.31	1.5	2.0	1.2	2.5	14	8.4	12	2.4	2.0	1.3	1.1
AC-FT	607	191	220	180	552	1320	611	4060	1010	305	544	102

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943-55, 1973-2001, BY WATER YEAR (WY)

	1943-55	1973-2001	1943-55	1973-2001
MEAN	7.81	6.96	7.34	8.61
MAX	29.9	23.8	18.1	26.4
(WY)	1973	1988	1943	1950
MIN	.90	.80	.77	.96
(WY)	1991	1991	1991	1991

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1943-55, 1973-2001

ANNUAL TOTAL	2617.16	4891.92		
ANNUAL MEAN	7.15	13.4		11.2
HIGHEST ANNUAL MEAN				30.7
LOWEST ANNUAL MEAN				1.49
HIGHEST DAILY MEAN	125	Aug 29	117	May 19
LOWEST DAILY MEAN	.31	Oct 3	.31	Oct 3
ANNUAL SEVEN-DAY MINIMUM	.39	Oct 1	.39	Oct 1
ANNUAL RUNOFF (AC-FT)	5190		9700	8080
10 PERCENT EXCEEDS	19		31	24
50 PERCENT EXCEEDS	3.2		4.5	5.0
90 PERCENT EXCEEDS	.53		1.5	1.1

e Estimated